

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for digitally storing a received program, comprising:

storing, by a computing device, the entire received program as a first digital copy having a first quality level;

converting, by the computing device, the first digital copy into a second digital copy of the entire received program, having a second quality level of lesser quality than the first quality level;

storing, by the computing device, the second digital copy along with the first digital copy; and

applying, by the computing device, a retention policy which requires at least deletion of selected ones of the stored first and second digital copies.

2. (Currently Amended) The method of claim 1, further comprising:
receiving, by the computing device, a request to schedule a recording of the program;
determining, by the computing device, a recording quality and a longevity for the program; and

associating, by the computing device, the recording quality and longevity with the program;

wherein applying the retention policy is performed based at least in part on the associated desired longevity.

3. (Original) The method of claim 2, wherein the recording quality comprises high, medium and low quality.

4. (Original) The method of claim 2, wherein determining the quality and longevity comprises a selected one of: utilizing a default quality and longevity or prompting for the desired quality and longevity.

5. (Original) The method of claim 2, wherein longevity comprises long, medium, and temporary, and wherein applying the retention policy further comprises comparing associated quality settings and longevity to determine which stored copy of a program is to be deleted.

6. (Currently Amended) The method of claim 1, further comprising:
receiving, by the computing device, a request to schedule a recording of the program, the request having an associated quality to utilize for recording the program;
inferring, by the computing device, a longevity for the recording based on the associated quality;
periodically, during the inferred longevity, selecting, by the computing device, a stored copy of the program and determining a lesser quality for the stored copy based at least in part on how long of the inferred longevity the stored copy has been stored; and
degrading, by the computing device, the stored copy of the program in accordance with the lesser quality.

7. (Currently Amended) The method of claim 1, further comprising:
determining, by the computing device, a bitrate and an encoding format for the first and second digital copies, wherein the first and second quality levels are determined based at least in part on the bitrate and the encoding format utilized.

8. (Original) The method of claim 1, wherein the first and second quality levels are determined based at least in part on a bitrate utilized to encode the first and second digital copies.

9. (Original) The method of claim 1, wherein the first and second quality levels are determined based at least in part on an encoding format utilized to encode the first and second digital copies.

10. (Currently Amended) The method of claim 1, further comprising:
converting, by the computing device, the first digital format into a third digital format
having a third quality level of lesser quality than the second quality level; and
storing, by the computing device, the third digital format;
deleting, by the computing device, selected ones of the stored first, second, and third
digital formats in accordance with the retention policy.

11. (Currently Amended) The method of claim 1, further comprising:
converting, by the computing device, the second digital format into a third digital format
having a third quality level of lesser quality than the second quality level; and
storing, by the computing device, the third digital format;
deleting, by the computing device, selected ones of the stored first, second, and third
digital formats in accordance with the retention policy.

12. (Currently Amended) A method for digitally storing a received program,
comprising:
receiving, by the computing device, a first program;
first converting, by the computing device, the entire first program into a first higher
quality copy and a first lower quality copy, and storing the first higher-~~and~~ copy along with the
first lower quality copies in a storage;
determining, by the computing device, there is insufficient space in the storage for
storing a second higher quality copy for a second program; and
deleting, by the computing device, at least one of the first higher quality copy and the
first lower quality copy to make room within the storage for storing the second higher quality
copy.

13. (Original) The method of claim 12, wherein stored copies of the first program
each have an associated retention policy, and wherein the deleting the at least one of the first
higher quality copy and the first lower quality copy is performed based at least in part on said
associated retention policies.

14. (Original) The method of claim 13, wherein the deleting the at least one of the first higher quality copy and the first lower quality copy is performed at based at least in part on storage requirements for the second higher quality copy of the second program.

15. (Original) The method of claim 12, wherein the deleting the at least one of the first higher quality copy and the first lower quality copy is performed at based at least in part on storage requirements for the second higher quality copy of the second program.

16. (Currently Amended) The method of claim 12, further comprising:
receiving, by the computing device, the second program;
second converting, by the computing device, the second program into the second higher quality copy and a second lower quality copy; and
storing, by the computing device, the second higher and lower quality copies in the storage.

17. (Currently Amended) The method of claim 12, further comprising:
determining, by the computing device, a first quality level associated with the first program, wherein converting the first program into the first higher quality copy comprises encoding the first program with a bit rate determined based at least in part on the first quality level.

18. (Currently Amended) The method of claim 12, further comprising:
applying, by the computing device, selected ones of global policies to all stored copies;
and
altering, by the computing device, the stored programs in accord with a selected global policy.

19. (Currently Amended) A personal video recorder (PVR), comprising:
a video encoder ~~operable~~ configured to encode an input signal corresponding to a

program into a higher quality copy of the entire program for storage in a storage;

a transcoder ~~configured~~operable to convert in the storage the higher quality copy of the program into at least one copy of the entire program with lesser quality ~~copy of the program for~~ storage; along with the higher quality copy of the program; ~~in the storage~~; and

a storage manager ~~configured~~operable to inspect the policies within a policy store associated with the storage manager and to apply selected ones of the policies to copies of the program so as to manage consumption of the storage.

20. (Original) The PVR of claim 19, wherein the transcoder stores the higher and at least one lesser quality copies of the program as components of a scalable bitstream.

21. (Original) The PVR of claim 19, wherein applying a selected one of the policies by the storage manager includes the storage manager deleting the higher quality copy of the program from the storage.

22. (Currently Amended) The PVR of claim 19, further comprising:
a video decoder ~~for configured to be used~~ in conjunction with retrieving a best available copy of the program from the storage, ~~configured~~the video decoder to convert the best available copy of the program into an output format suitable for presentation to a display.

23. (Currently Amended) An article of manufacture comprising
a storage medium for digitally storing a received program; and
a plurality of programming instructions designed to program an apparatus and enable the apparatus to
~~a machine accessible media having associated data for digitally storing a received program;~~
~~wherein the data, when accessed, results in a machine performing:~~

_____ ~~storing~~store in a storage the entire received program as a first digital copy having a first quality level;

_____ converting the first digital copy into a second digital copy of the entire received program having a second quality level of lesser quality than the first quality level;

~~_____temporarily storing-store~~ the second digital copy in the storage along with the first digital copy; and

~~_____~~ applying a retention policy which requires at least deletion of selected ones of the stored first and second digital copies.

24. (Currently Amended) The article of claim 23, wherein the programming instructions are further designed to~~the machine-accessible media further includes data, which when accessed, results in the machine performing:~~

~~receiving-receive~~ a request to schedule a recording of the program;
~~determining-determine~~ a desired recording quality and a longevity for the program; and
~~associating-associate~~ the quality and longevity with the program, wherein the data, which when executed applies the retention policy, further includes data for applying the retention policy based at least in part on the associated desired longevity.

25. (Currently Amended) The article of claim 23, wherein the programming instructions are further designed to~~the machine-accessible media further includes data, which when accessed, results in the machine performing:~~

~~determining-determine~~ a first bitrate for encoding the first digital copy; and
~~determining-determine~~ a second bitrate for encoding the second digital copy;
whrcin the data ~~which when accessed results in storing the first and second digital copies with the first and second quality levels further includes data which when accessed results in determining the first and second quality levels~~ are respectively determined based at least in part on the first and second bitrates.

26. (Currently Amended) An article of manufacture comprising
a storage medium for digitally storing a received program; and
a plurality of programming instructions designed to program an apparatus and enable the apparatus to
a machine-accessible media having associated data for digitally storing a received program,
~~wherein the data, when accessed, results in a machine performing:~~

~~receiving~~ receive a first program;

first converting the ~~entire~~ first program into a first higher quality copy and a first lower quality copy, and storing the first higher ~~and copy~~ along with the first lower quality copies in a storage;

~~determining~~ determine there is insufficient space in the storage for storing a second higher quality copy for a second program; and

~~deleting~~ delete at least one of the first higher quality copy and the first lower quality copy to make room within the storage for storing the second higher quality copy.

27. (Currently Amended) The article of claim 26, wherein the programming instructions are further designed to the machine-accessible media further includes data, which when accessed, results in the machine performing:

~~receiving~~ receive the second program;

second converting the second program into the second higher quality copy and a second lower quality copy; and

~~storing~~ store the second higher and lower quality copies in the storage.

28. (Currently Amended) The article of claim 26, wherein the programming instructions are further designed to the machine-accessible media further includes data, which when accessed, results in the machine performing:

applying selected ones of global policies to all stored copies; and

altering the stored programs in accord with a selected global policy.